



US007519219B2

(12) **United States Patent**
Okamura

(10) **Patent No.:** **US 7,519,219 B2**
(45) **Date of Patent:** **Apr. 14, 2009**

(54) **METHOD AND PROGRAM FOR
CORRECTING FACIAL IMAGE AND
RECORDING MEDIUM**

(75) Inventor: **Koki Okamura**, Saitama (JP)

(73) Assignee: **Fujifilm Corporation**, Tokyo (JP)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 722 days.

(21) Appl. No.: **10/766,922**

(22) Filed: **Jan. 30, 2004**

(65) **Prior Publication Data**

US 2004/0196292 A1 Oct. 7, 2004

(30) **Foreign Application Priority Data**

Feb. 13, 2003 (JP) 2003-035302

(51) **Int. Cl.**
G09G 5/00 (2006.01)

(52) **U.S. Cl.** **382/167**; 382/162; 358/518;
358/519; 358/520; 358/521; 358/522; 358/523;
345/589; 345/590; 345/591; 345/592; 345/593;
345/594; 345/595; 345/596; 345/597; 345/598;
345/599; 345/600; 345/601; 345/602; 345/603;
345/604; 345/605

(58) **Field of Classification Search** 382/162,
382/167; 345/589–605; 358/518–523
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,130,935 A * 7/1992 Takiguchi 382/167
5,490,245 A * 2/1996 Wugofski 715/837

6,009,209 A 12/1999 Acker et al.
6,184,860 B1 * 2/2001 Yamakawa 715/823
6,285,410 B1 9/2001 Marni
7,002,546 B1 * 2/2006 Stuppi et al. 345/102
2001/0005222 A1 6/2001 Yamaguchi

FOREIGN PATENT DOCUMENTS

GB 2 365 648 A 2/2002
JP 11-017969 1/1999
JP 11-250227 9/1999

OTHER PUBLICATIONS

“Adobe Photoshop 7.0: Classroom in a Book.” 2002, Adobe Systems
Inc., pp. 89-92, 104-125, 201-211, and 229-245.*
European Search Report dated Mar. 22, 2007.

* cited by examiner

Primary Examiner—Jingge Wu

Assistant Examiner—John W Lee

(74) *Attorney, Agent, or Firm*—McGinn IP Law Group,
PLLC

(57) **ABSTRACT**

A facial image photographed by a digital camera is down-
loaded to a PC. When a facial image correction program
starts, a correction window and a correction item selection
window open on a monitor. When a user opens the facial
image in the correction window, a pixel extraction circuit
extracts pixels representing a skin area, an eye area, a teeth
area, and a hair area from the facial image. Correction items
to be performed are determined in the correction item selec-
tion window. A cursor position detection circuit detects the
position of a cursor in the correction window. When the
cursor is in one of the areas, a facial image correction circuit
judges whether the correction item corresponding to the area
is selected. If the corresponding correction item is selected,
the facial image correction circuit subjects a pixel pointed by
the cursor to predetermined correction processing.

18 Claims, 5 Drawing Sheets

